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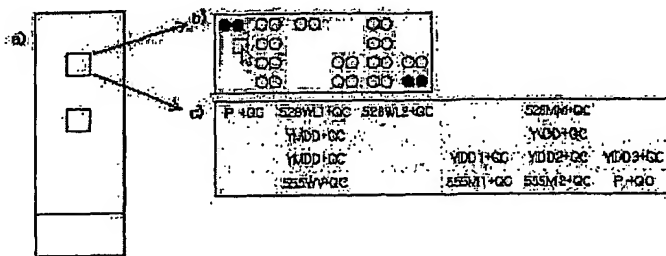
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(54) Title: MICROARRAY COMPRISING PROBES FOR DRUG-RESISTANT HEPATITIS B VIRUS DETECTION, QUALITY CONTROL AND NEGATIVE CONTROL, AND METHOD FOR DETECTING DRUG-RESISTANT HEPATITIS B VIRUS USING THE SAME



(57) Abstract: Provided are a microarray manufactured using a mixture of target probes for drug-resistant HBV detection, quality control probes for controlling quality in probe hybridization and fabrication of microarrays, and negative control probes for determining the presence and ratio of more than one type, i.e., a wild type and a mutant in a codon, measuring a background of non-specific cross-hybridization, and discriminating homozygotes and heterozygotes, and a method of detecting

a drug-resistant HBV, controlling the quality of a microarray, determining the presence and ratio of more than one type, and determining positive and false positive probes at the same time using the microarray. The microarray, which includes the target probes for drug-resistant HBV detection, the QC probes, and the negative control probes, can detect a drug-resistant HBV, control quality in fabrication of microarrays and hybridization, determine the presence and ratio of more than one type, i.e., a wild type and a mutant, determine positive and false positive probes by measuring a background of non-specific cross-hybridization, and discriminate homozygotes and heterozygotes. When a plurality of sets of probes, each set containing target probes, QC probes, and negative control probes, are immobilized on a support of the microarray, detection of resistance in HBV to multiple drugs, quality control, and determination as to the presence and ratio of a wild type and a mutant and whether each probe is positive or false positive can be rapidly and accurately performed.